UTKIN, I.A.; SHAMSHEV, F.A.

Ways of developing the technology and methodology of test drilling.
Zap. LGI 41 no.2:3-6 '61.

(Boring)

SUMAROKOV, O.M.; UTKIN, I.A.; MAL'GHENOK, V.O.

Cambined vibrator for percuscivy retary drilling. Biul.nauch.tekh.inform VIMS no.1:97-98 '(3. (MIRA 18:2)

range on propositioners securicaes compositions variables and proposition of the composition of the composit

Sumarokov, O.M.; UTKIN, I.A.; MAL\*CHENCK, V.O.

Sectional magnitostriction vibrator for persussive-rotary drilling.
Biul. nauch.-tekh. inform. VIMS no.2:76-7. \*63. (MIRA 18:2)

MARAMZIN, A.V., kand. tek. nauk; UTKIN, I.A., doktor tekhn. nauk prof., nauchr d.; RAGINA, G.M., red.

[Drilling boreholes in perennially frozen ground; methods handbook] Threnie skvazhin v mnogoletnei merzlote; metodicneskoe rukovodstvo. Leningrad, Gostoptekhizdat, 1963. 287 p. (MIRA 17:4)

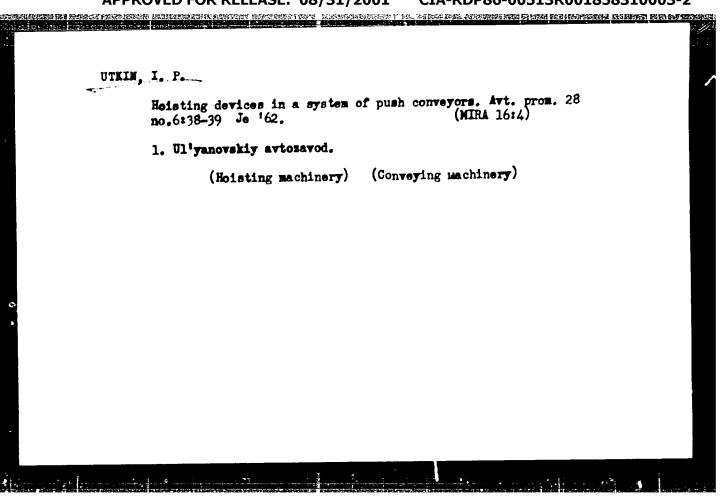
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THE STATE OF THE PROPERTY AND PROPERTY ASSESSMENT OF THE PROPERTY OF THE PROPE

GITTSICRAT, Ernest Ernestovich; PINKEVICH, Al'bert Al'bertovich; VINOCRADOVA, Larisa Vasil'yevna; UTKIN, I.A., doktor tekhn. nauk, prof., red.; REYKHERT, L.A., vec. red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

HENNING BENNINGSTRUMSALINGSTEN ENTRESCHEINEN SEITEL EIN EINEN SOM PARKERSTEN

[English-Russian dictionary on exploration drilling] Anglorusskii terminologicheskii slovar' po geologopoiskovomu bureniiu. Pol red. I.A.Utkina. Leningrad, Gostoptekhizdat, 1963. 318 p. (English language—Dictionaries—Russian) (MIRA 16:12) (Boring—Dictionaries)



W	New method for loading automobiles. Avt. prom. 28 no.9:45 S 162. (MIRA 15:10)
	1. Ullyanovskiy avtozavod.
	(Automobiles—Transportation)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310003-2"

-		T D								
. U	TKIN,	I. P.	-				_			
		Bridge	stacker-	cranes.	Avt. pro	m. 29 no.5	(MIRA	My '63; 16:4)		
						avod imeni				
						ricks, etc				

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310003-2"

UTKIN, I.P.

Tow car with a hydraulic drive based on the UAZ-450D motortruck. Avt.prom. 29 no.10:17-18 0 '63.

Table with a reversing apron conveyor. 36

A REPORT OF THE PROPERTY OF TH

(MIRA 16:10)

1. Ul'yanovskiy avtomobil'nyy zavod.

UTKIN, I.P.

Trailer for transporting industrial electric trucks and loaders.

Avt. prom. 31 no.2:42 F \*65.

1. Ul'yanovskiy avtozavod.

UTKIN, I.P	·				
Me co	chanism for re nveyor. Avt. p	moving and dum rom. 31 no.8:4	ping long-size 1-42 Ag 165.	d articles from a (MIRA 18:8)	
1.	Ul'yanovskiy	avtozavod.			

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310003-2"

MEL'NIKOV, K.A. (Donetsk); YAKOVENKO, G.D. (Donetsk); UTKIN, 1.S.

Making 1,421 m. of mine workings in one month with the use of the PK-3m cutter-loader. Ugol' 40 no.12:11-14 D'65.

(MIRA 18:12)

1. Shakhta No.40 "Kurakhovka" tresta Selidovugol'.

KOVALEV, D.F.; UTKIN, I.S.; SELEMENEY, I.D., brigadir kompleksnoy brigady

When the drifting operations have been well prepared. Ugol' Ukr. 6 no.9:4-7 S '62. (MIRA 15:9)

1. Zamestitel' glavnogo inzhenera Leninskogo tresta kombinata Kuzbassugol' Ministerstva ugol'noy promyshlennosti SSSR (for Kovalev). 2. Nachal'nik Leninskogo shakhtoupravleniya Leninskogo tresta kombinata Kuzbassugol' Ministerstva ugol'noy promyshlennosti SSSR (for Utkin).

(Donets Basin--Coal mines and mining)

utkin, I.	¥.			······································		7A 2/	3,922	
	5e/4 <b>9T</b> 2	Alreraft Electric Drive." Two sessions were devoted to the report, "Frequency Method of Analyzing the Quality of a Servoelectric Drive."	USSR/Academy of Sciences (Contd) Jul 49	At the seminar, attended by about 100 scientific and engineering-technical vor ers of Moscov, reports submitted included: V. S. Kulebakin's "Theory of the Impulse Method of Regulating Speed in Electric Motors," F. A. Goryaynov's "Operation of an Electrical Regulator (Rototrol) in Regulation Systems," and D. A. Popov's "Characteristics of 52/4972	"Iz Ak Neuk SSSR, Otdel Tekh Neuk" No 7	"Scientific Seminar of the Institute of Automatics and Telemechanics on Automatic Electric Drive," I. V. Utkin, 5 pp	USSR/Academy of Sciences Automatic Regulations	
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NATIONAL PROPERTY OF THE PROPE

SOY/112-58-2-2372

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 96 (USSR), AUTHOR: Bogoyavlenskiy, V. N., Utkin, J. Y., and Demidenko, Ye. D.

TITLE: An Investigation of an Electric Tractor Main Drive (Issledovaniye glavnogo privoda elektrotraktora)

PERIODICAL: Y sb.: Avtomatizatsiya proizv. protsessov v s. kb., M., AN SSSR, 1956, pp 204-219

ABSTRACT: The final choice of a system for electric tractor drive has not yet been made. The first tentative solution was a simple replacement of the thermal motor by a squirrel-cage AC motor, with the friction slipping coupling retained in the system. The second solution has been the use of an adjustable-speed AC motor. The dynamic and static operating conditions of both squirrel-cage and wound-rotor motors have been investigated. The first is started under no-load conditions, and then tractor acceleration is effected through a slipping clutch coupling, by a method combining the utilization of the motor torque and the flywheel kinetic energy. An equation describing the dynamic

Card 1/2

SOV/112-58-2-2372

An Investigation of an Electric Tractor Main Drive

process of motor acceleration is analyzed, with particular reference to the effect of flywheel size. It has been found that even an oversized squirrel-cage motor has to operate under heavy thermal conditions. Besides, the friction clutch does not secure maneuvering tractor speeds, and a coarse speed regulation causes bumpy operation of the tractor. The wound-rotor motor eliminates the above disadvantages, and the adjustable slipping clutch becomes unnecessary. Field tests of the wound-rotor motor tractor have confirmed that, among its advantages, are stability of acceleration and speed regulation under any load and no need for a friction clutch and flywheel. Instructions are given on calculating steps for the regulating rheostat.

A.I.B.

Card 2/2

#### "APPROVED FOR RELEASE: 08/31/2001 C

CIA-RDP86-00513R001858310003-2

(MIRA 10:5)

TOPCHIYEV, A.V., akademik, glavnyy redaktor; KULEBAKIN, V.S., akademik, otvetstvennyy redaktor; GORSKIY, B., redaktor; NEVRAYEV, V.Yu., redaktor; UTKIN, I.V., redaktor; ASTAP'YEVA, G.A., tekhnicheskiy redaktor.

[Session of the Academy of Sciences of the U.S.S.R on scientific problems of the automatisation of production, Cctober 15-20, 1956; scientific and technical problems of automatic electric drive]Sessia Akademii nauk SSSR po nauchnym problemam avtomatizatsii proisvodstva, 15-20 oktiabria 1956 g; nauchno-tekhnicheskie problemy avtomatizirovannogo elektroprivoda. Moskva. 1957. 444 p.

NAMED OF THE PROPERTY OF THE P

1.Akademifa nauk SSSR.

(Electric driving)
(Automatic control)

KRUTOVA, I. N.: SUBBOTINA, G.V.: UTKIN, I.V.; KOBRIHSKIY, A.Ye.; GAVRILOV, M.A;

Conference of the Academy of Sciences of the U.S.S.R. on Automatics.
Avtom. 1 telem. 18 no.2:182-192 F '57. (MIRA 10:3)

(Automatic control)

UTKIN, I.V.

ANVEL'T, Moyya Yur'yevich; GERASIMOV, Viktor Grigor'yevich; ZAYDEL',
Khristina Eduardovna; KOGEN-DALIN, Vladimir Viktorovich; LYSOV,
Nikolay Yegorovich; MOROZOV, Dmitriy Nikolayevich; NITUSOV,
Yevgeniy Vasil'yevich; PANTYUSHIN, Vasiliy Sergeyevich, prof.:
PUKHLYAKOV, Yuriy Kharlampiyevich; SHIRNOV, Vladimir Aleksardr
vich; UTKIN, Ivan Vasil'yevich; SHAROKHIN, Grigoriy Ivanovich,
KASATKIN, A.S., retmenzent, red.; BORUNOV, N.I., tekan.red.

[Electrical engineering; general course] Elektrotekhnika; obshchii kurs. Pod red. V.S.Pantiushina. Moskva, Gos.energ. izd-vo. 1959. 632 p. (MIRA 13:1) (Electricity)

# UTKIN, I.V. (Swerdlovsk)

BRIDGER BRIDGER CHECKER THEFER REME HESSESSES WE STREET STREET STREET

Cooperation of the representatives of science and production. Zhel. dor. transp. 47 no.7:83-84 Jl '65. (MIRA 18:7)

1. Rektor Ural'skogo instituta inzhenerov zheleznodorozhnogo transporta.

的**医院学校 网络**斯特西班腊克山部的拉伯尼亚特,更为海通民族和沙方的农民 免疫 的变体法数 战战,一旦高兴地的战功之后,"京学民政学发现的政治,不够的政治,为他的政治,则由**正同位 对现代的**现代的现在分词 57-9-23/40 Kel'man, V.M., Utkin, K.G., AUTHORS Loginova, L.N. A Simplified Construction of a System Containing TITLE a Rubber Membrane for the Determination of the Trajectories of Charged Particles in the Presence of a Space Charge. (Uproshchennaya konstruktsiya ustanovki s rezinovoy membranoy dlya opredeleniya trayektoriy zaryazhennykh chastits v prisutstvii ob"yemnogo zaryada.) Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 9, pp. 2092-2096 PERIODICAL (USSR) In the papers by V.M. Kel'man and I.V. Krasnov, ABSTRACT Zhurnal Tekhn. Fiz., 1955, Vol. 25, p. 1714, and p.1726 it was shown that the accuracy with which the trajectories of charged particles was determined by means of rubber membranes could be considerably increased by giving up modelling particle motion by means of a ball rolling on a rubber surface, and by using only graphic methods for the construction of trajectories. Giving up using balls makes it possible to simplify construction considerably, because in such a case the pressure modelling CARD 1/2 the space charge on the membrane could be brought to

57-9-23/40 A Simplified Construction of a System Containing a Rubber Membrane for the Determination of the Trajectories of Charged Particles in the Presence of a Space Charge.

> bear from above and could be caused by the weight of the plates distributed over the membrane, which are weighted accordingly. Such a simplified system is

There are 10 figures and 2 Slavic references.

ASSOCIATION:

Leningrad Polytechnical Institute imeni M.I. Kalinin.

(Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina.)

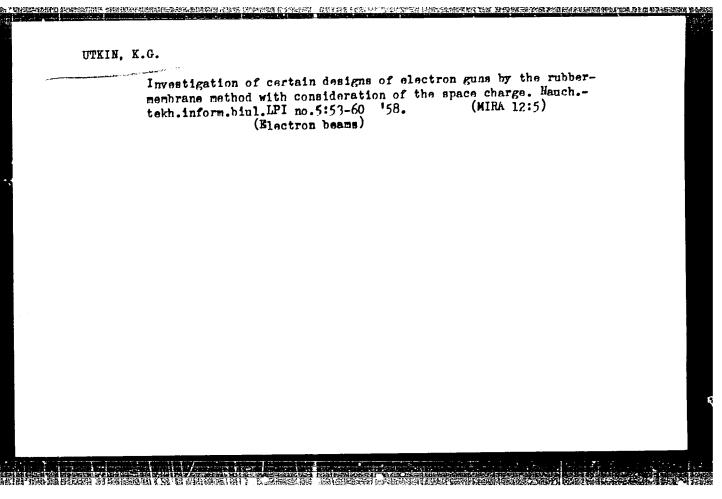
SUBMITTED:

AVAILABLE:

March 14, 1957. Library of Congress.

CARD 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310003-2"



GANICHEV, D.A.; UTKIN, K.G.

Possibility of the analysis of the distribution of electrons according to their total energies in a quant-spherical condenser. Fiz. tver. tela 1 no.4:648-653 '59. (MIRA 12:6)

1. Leningradskiy politekhnicheskiy institut im. M.I. Kalinina. (Electrons)

SOV/109-4-1-29/30

CONTROL OF THE SECOND VEHICLE AND SECOND AND SECOND SECOND

AUTHORS: Ganichev, D.A. and Utkin, K.G.

TITLE: Accuracy of the Spherical Condenser Method (O tochnosti

metcda sfericheskogc kondensatora)(Letter to the Editor)

PERIODICAL: Radiotekhnika i Elektronika, 1959, vol 4, Nr 1,

p 148 (USSR)

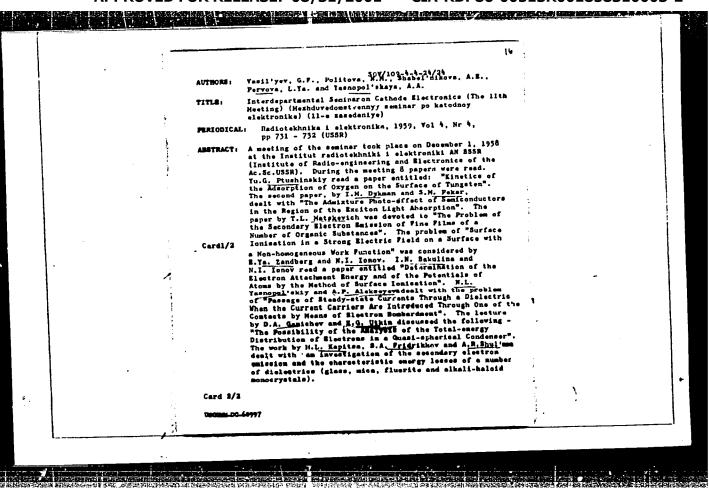
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ABSTRACT: N.A. Soboleva investigated the accuracy of the spherical

condenser method in a work published in this journal (Ref 1). Here, it is pointed out that the so-called yield coefficient measured by Soboleva should have been zero and the fact that it was not was due to the experimental errors. Consequently, it is pointed out that Soboleva's experiments were burdened with an error when determining the electron trajectories by means of an electrolytic tank. There are 2 Soviet references.

SUBMITTED: May 6, 1958

Cardl/1



#### CIA-RDP86-00513R001858310003-2 "APPROVED FOR RELEASE: 08/31/2001

sov/120-59-5-25/46 Utkin, K.G. AUTHOR:

entralism representativa intercentral del complete de la completation de la completation de la completation de

A Rubber-membrane Apparatus for the Automatic Determination TITLE: of Equipotentials, Taking the Space Charge into Account

Pribory i tekhnika eksperimenta, 1959, Nr 5, PERIODICAL: pp 111 - 116 (USSR)

ABSTRACT: The rubber membrane has been widely used to determine two-dimensional electrical fields which are difficult to calculate analytically. Recently, Bobykin et al (Ref 1) and Alma et al (Ref 2) have shown that it is possible to take into account the space charge as well, using a rubber membrane. The application of a rubber membrane in the modelling of electrostatic fields taking the space charge into account is based on the analogy between the equations of a stretched and loaded membrane (small radii of curvature) and the Poisson equation for the electrostatic potential. The equation of the surface of a stretched and loaded membrane is given by Eq (1), where h is the displacement of the membranes from the equilibrium position, P is the load per unit area and T is the tension. Poisson's equation, on the other hand, is given by Eq (2), where

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2008年建设的扩大,从中还有新疆的可打在加速的产品的运动和企业的、数据和联系的企业,而1900年发现的扩张力势处理,1900年发现,1900年发现,1900年发现

SOV/120-59-5-25/46
A Rubber-membrane Apparatus for the Automatic Determination of Equipotentials, Taking the Space Charge into Account

arphi is the potential and arphi is the space-charge density. At constant T, Eq. (1) and (2) lead to the relation given by Eq (3) and with corresponding boundary conditions, Eq (4) also holds. The boundary conditions on the membrane depend on the form of the electrodes and the displacement of the membrane surface from the equilibrium position (by the electrodes) through a distance proportional to the modelled potential. A distributed load proportional to the space-charge density at the given point is applied to the free surface of the membrane. Figure 1 shows four possible ways of applying a distributed load to a membrane surface (Refs 1-4). The last of these four drawings (Figure 1) in which the load is applied from above, is very much simpler when it is desired to model the space charge and may be used to automatise the process of determination of lines of equal curvature which correspond to projections of equipotential surfaces. This method was used by the present author to find the current-density distribution over a cathode in two-dimensional fields when

Card2/7

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A Rubber-membrane Apparatus for the Automatic Determination of Equipotentials, Taking the Space Charge into Account

the current is limited by the space charge and the initial velocities of the electrons are zero. Kel'man et al (Ref 3) have shown that when the space charge in the region near the cathode a (Figure 2) is replaced by an equivalent surface charge, placed at a distance of one-quarter of the width of this region, then the potential distribution in the region b (Figure 2) remains unaltered. The potential distribution in an infinite plane diode is then given by Eq (5) (Ref 6), where  $\phi$  is the potential and  $\delta$  is the current density at the cathode. From Eqs (2) and (5), it follows that the space-charge density in a plane diode is given by Eq (6). The amount of charge in the region a per unit length of the cathode is then given by Eq (7). The surface charge can easily be modelled using a membrane with a localised pressure, applied along a line at a distance y /4 from the cathode (Figure 2). If the cathode is in the form of a curved surface, then when is much smaller, than the radius of curvature of the cathode

Card3/7

SOV/120-59-5-25/46
A Rubber-membrane Apparatus for the Automatic Determination of Equipotentials, Taking the Space Charge into Account

对的数据文献的数据 新疆市场的数据中心(1976年的特殊的),1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1976年,1

in the region a , the potential distribution corresponds to the distribution in the case of an infinite plane diode. In order to find the correspondence between unit weight and unit charge on the membrane, some simple electrostatic In the present case, 1 CGSU problem is first solved. corresponded to 0.695  $\times$  10  $^{4}$  g and 1 cm of curvature to a potential of 100 V. The distributed space charge was modelled using loaded dural plates, 2 x 2 cm in area. The localised load was applied with the aid of special "knife edges" in the form of blades 2 cm wide. Usually, the current distribution over the cathode is unknown and is found by the method of successive approximations. The "knife edges" are set up at a distance of 1 cm from the cathode (Figure 3) and are loaded until the membrane becomes horizontal in the region between the cathode and the knife edges. In Figure 1, 1 are the knife edges and 2 are the plates through which the distributed load is applied. With the knife edges loaded, the field pattern

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A Rubber-membrane Apparatus for the Automatic Determination of Equipotentials, Taking the Space Charge into Account

is taken as the zero-order approximation. From the knowledge of the pressure applied to the knife-edge line and the correspondence between weight and charge, it is possible to determine the surface charge in the knife-edge plane. Then, using Eq (7), the emission current can be determined. This quantity is then the upper limit of the current density. In the zero-order approximation, b is taken as (0.5-0.7) b o max

The emitting part of the cathode is split into sections whose width is equal to the width of a knife edge. From the field pattern, the electron trajectories beginning on the boundaries of the sections are then plotted graphically. These trajectories are the boundaries of current tubes. The current is considered constant within each current tube. Knowing the potential at each point in a tube and the current density in the tube, it is easy to calculate the load on the membrane in the first approximation.

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SOV/120-59-5-25/46
A Rubber-membrane Apparatus for the Automatic Determination of Equipotentials, Taking the Space Charge into Account

If, then, the surface of the membrane is covered with plates in accordance with the calculation and the membrane in the region between the cathode and the line of the knife edges is made horizontal again, one obtains the field pattern in the first approximation. Using Eq (7), it is then possible to determine the upper limit for the current in the first approximation, i.e. bl max

This process can be continued to obtain the required current. Lines of equal curvature were determined automatically using the installation whose photograph is shown in Figure 4. Figure 3 shows a potential distribution and electron trajectories in the third approximation in a gun giving a ribbon-shape electron beam. Figure 10 gives the current-density distribution showing the successive approximations (1 is the upper limit for the current , 2 is the current density in the zerodensity o max order approximation  $\delta_0$ , 3 is the current density in

Card 6/7

UTKIN, K. G., Cand Phys-Math Sci -- (diss) "Research into electronic-optical systems with high emission current density by the method of optical systems with high emission current density by the method of modelling on a resinous membrane." Leningrad, 1960. 15 pp; (Acadely of Sciences USSR, Leningrad Physics-Technology Inst); 150 copies; price not given; (KL, 26-60, 130)

S/194/61/000/007/031/079 D201/D305

True en legi a l

AUTHOR:

Utkin, K.G.

TITLE:

Determination of emission current from cathodes with a small radius of curvature by the rubber membrane

method

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 2, abstract 7 G7 (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1960, no. 3, 72-78)

TEXT: A description is given of the method of determining the total current and of the current density at the surface of the cathodes with small radius of curvature. The influence of the space change has been taken into account by means of changing it into the surface change at a region near to the cathode. Using a rubber membrane the problem was solved of the plane diode with a cylindrical emitting surface. The volt-ampere characteristic obtained by modelling was very nearly the same as that obtained from experiment al

Card 1/2

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Determination of emission current...
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diodes. The final result depends little on working formulae if these are used in first approximations. 7 references. Abstracter's note: Complete translation

Card 2/2

5/194/61/000/012/065/097 D201/D303

Serebrov, L. A., Fridrikhov, S. A. and Utkin, K. G. AUTHORS:

The character of the electric field in electron stc-TITLE: rage tubes with cylindrical and oval collectors

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 38-39, abstract 12G243 (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-ta, 1960, no. 9,

108-113)

TEXT: The electrolytic tank simulator method was used to determine the magnitude and distribution of the electric field intensity in the magnitude and distribution of the electric field intensity in the dielectric target - correcting ring - collector space. The electrodes, made to a scale of 1:3, corresponded in dimensions to typical storage cathode ray tubes. Changing over from the cylindrical to the oval shape of the collector does not influence the field configuration to a great extent. In the absence of the correcting ring the target diameter is substantially uneven, the coefficient of inhomogeneity in the vicinity of e.g. 10% equipotential line

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310003-2" The character of ...

S/194/61/000/012/065/097 D201/D303

reaching the value of the order of 4. Introduction of the ring at the collector in the form of a conducting coating at the tube walls, makes it possible to straighten the field in the region of the 10% equipotential line only. At greater distances from the target the field remains substantially distorted. Straightening the field by increasing the collector-to-target distance is accompanied by a considerable weakening of the field intensity and is not, therefore, recommended. The experimentally obtained field maps for various shapes of electrodes are given. 3 references. Abstractor's note: Complete translation.

Card 2/2

# "APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858310003-2

s/057/62/032/006/010/022 B108/B102

9.3120

AUTHORS:

Utkin, K. G., and Toporkov, S. A. Determination of the emission current in axisymmetric systems

TITLE:

with the aid of a rubber membrane

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 6, 1962, 706 - 712 TEXT: The use of the rubber membrane method in determining the potential

distribution and the current from the cathode surface in axisymmetric systems is proposed. This method is usually applied to plane problems. If however, the boundary conditions of the membrane are properly chosen this method is suitable also to simulate axisymmetric problems. If a

is applied to the membrane it will simulate the potential

distribution without space charge. The problem with a space charge can be rendered by adding a linear term to the expression for the pressure on the pressure p = membrane. T is the tension of the membrane, h is the deviation of the membrane surface from equilibrium. Calculations were performed for cylindrical diodes. The results are in good agreement with the results

Card 1/2

Determination of the ...

S/057/62/032/006/010/022 B108/B102

of measurements on real objects. There are 7 figures and 1 table.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina

(Leningrad Polytechnic Institute imeni M. I. Kalinin)

SUBMITTED: July 17, 1961

Uard 2/2

YELISEYEV, Nikolay Aleksandrovich; GORBUNOV, Grigoriy Ivanovich;
YELISEYEV, Erik Nikolayevich; MASLENIKOV, Vladimir Alekseyevich;
UTKIN, Konstantin Nikolayevich [deceased]; POLKANOV, A.A.,
akademik, glavnyy red.; YELISEYEV, N.A., otv.red.; DOLMATOV, P.S.,
red.izd-va; BLEYKH, E. Yu., tekhn.red.

[Ultrabasic and basic intrusions in Pechenga District; geology and structure, petrography, minerals and ores, geochemistry of nickel] Ul'traosnovnye i osnovnye intruzii Pechengi; geologiia i struktura petrografiia, mineraly i rudy, geokhimiia nikelia. Moskva, Izd-vo Akad.nauk SSSR. 1961. 357 p. (Akademiia nauk SSSR. Laboratoriia geologii dokembriia, Trudy, no.10)

1. Chlen-korrespondent AN SSSR (for Yellseyev).
(Pechenga District-Geology)

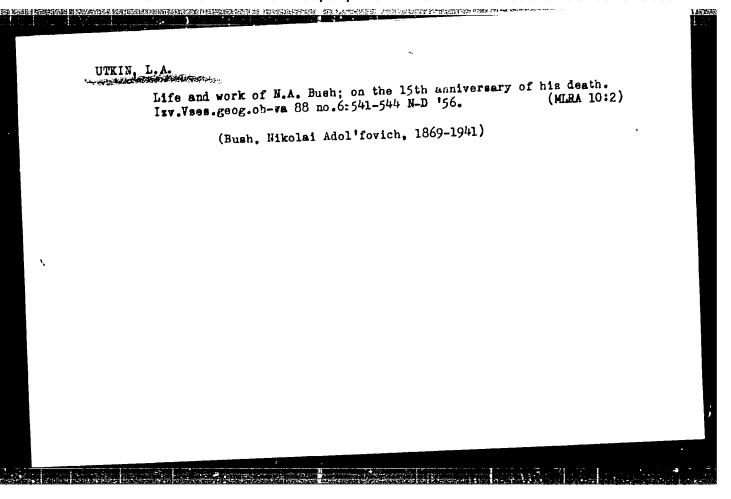
ZILIST, Petr Sigizmundovich; KAZACHKOV, David L'vovich; DVORKIN, A.L., inzh., retsenzent; UTKIN, K.V., inzh., retsenzent VERDNIKOV, Ya.V., nauchn. red.; HIKITINA, M.I., red.

[Overall mechanization of planning and designing operations in shipbuilding] Kompleksnaia mekhanizatsiia proektnokonstruktorskikh rabot v sudostroenii. Leningrad, Sudostroenie, 1965. 315 p. (MIRA 18:12)

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UTKIN, L. A.

N. I. Sharapov. Lekarstvennyye rasteniya Chelyabinskoy oblasti
(Medicinal Plants of Chelyabinsk Oblast). Chelyabinsk. Chelyabgiz. 1951.
128 pages with illustrations.
U-5235



UTKIN L.A.; GAMMERMAN, A.F.; NEVSKIY, V.A.; SOKOLOV, V.S., otvetstvennyy redaktor; TARASOV, G.A., redaktor; LEBEDEV, D.V., otvetstvennyy redaktor; TARASOV, G.A., redaktor izdatel'stva; TYERITINOVA, K.S., tekhnicheskiy redaktor

[Bibliography on medicinal plants; an index to Russian literature.

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otechestvennoi literatury. Rukopisi XVII-XIX vv., pechatnye izdaniis

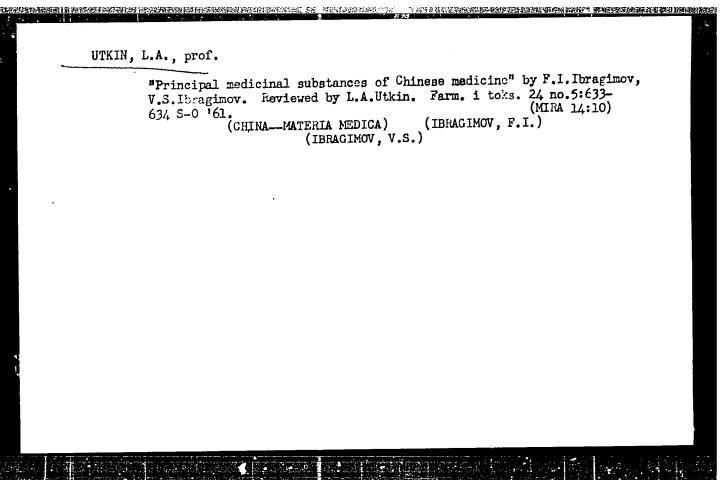
otechestvennoi literatury. Rukopisi XVII-XIX vv., pechatnye izdaniis

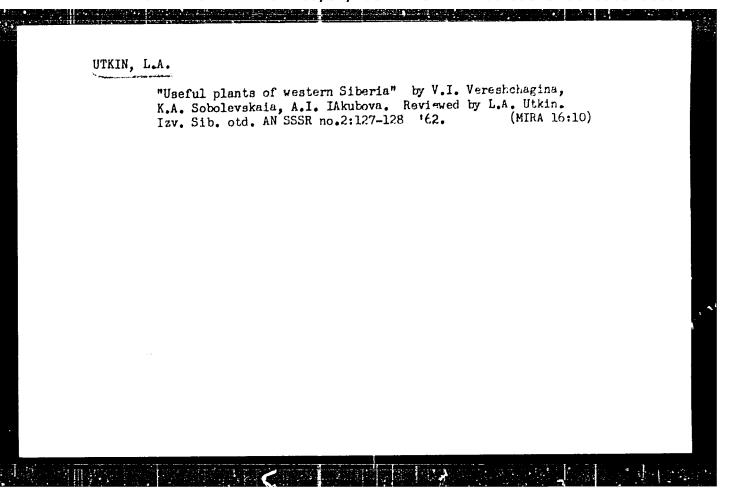
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[Concise botanical Russian-Latin dictionary] Kratkii botanicheskii russko-latinskii slovar'. Moskva, Vses. botanicheskoe ob-vo, 1961. 230 p. (MIRA 17:4)





TURUTA, N.U., kandidat tekhnicheskikh nauk; UTKIN, L.A., redaktor; KEL'-NIK, V.P., redaktor; KOVALENKO, H.I., tekhnicheskiy redaktor.

[Drilling and blasting operations; a textbook for mine foremen]
Buro-vzryvnye raboty; uchebnos posobie dlia shkol i kursov masterov. Izd. 2-e, perer. i dop. Sverdlovsk, Gos. nauchno-tekhn. izdvo lit-ry po chernoi i tsvetnoi metallurgii, 1954. 600 p.[Microfilm]
(Blasting) (Rock drills)

(MLRA 8:2)

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LYKHIN, Pavel Aleksandrovich; UTKIN, L.A., red.; TSYMBALIST, N.N., red. izd-va; ZKF, Ye.M., tekhn.red.

[Using drilling and blasting techniques in intensifying horizontal mining] Intensifikatsiia provedeniia gorizontal'nykh gornykh vyrabotok buro-vzryvnym sposobom. Sverdlovsk, Gos. nauchno-tekhn.izd-volit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1957. 137 p. (MIRA 11:3)

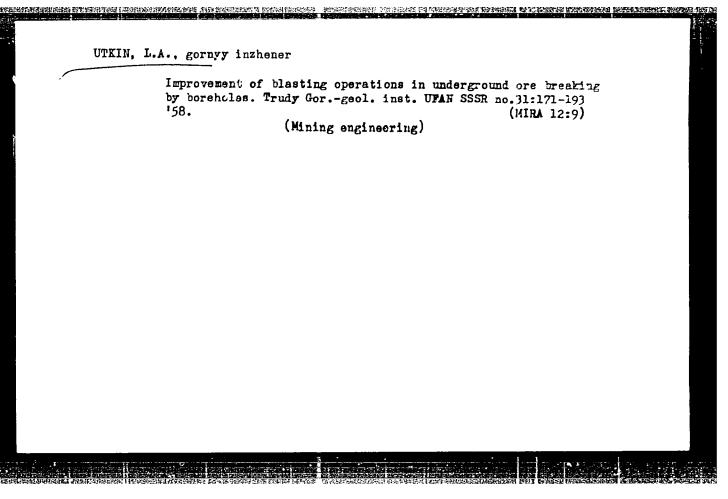
(Mining engineering)

ILIVITSKIY, A.A.; UTKIN, L.A.; PESHKOV, V.Ya.

Underground mining of the Blagodat' mountain deposits. Biul.
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1.Ural'skiy filial AN SSSR (for Ilivitskiy, Utkin). 2.Goroblagodatskoye rudoupravleniye (for Peshkov).
(Blagodat Nountain--Iron mines and mining)

CUTKING GARTENF	LYUS, V.S., inzh.;	ILIVITSKIY, A.A., kand, techn. nash. USESN, L.A.,
	Underground mining no.2:1-5 *58.	of Lebiazhin iron ore deposits. Mul. TSHIICHM (MIRA 11:5) (Nizhniy Tagil—Iron mines and mining)
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τ	TKIN,	L.A.						
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			(Mining e	ngineering)			(MIRA 13:5	<b>;</b> }

UTKIN, L. A., Cand Tech Sci -- (diss) "Means of improving explosion operations in underground breaking down of ore with boring charges in the iron mines of the Tagilo-Kushvinskiy rayon." Sverilovia, 1960. 15 pp; (Ural'skiy Affiliate of the Academy of Sciences USSK, Vining Geology Inst); 150 copies; price not given; (KL, 22-60, 140)

UTKIN, L.A.

# PHASE I BOOK EXPLOITATION

sov/5298

- Akademiya nauk SSSR. Ural'skiy filial. Gorno-geologicheskiy institut.
- Podzemnaya razrabotka rudnykh mestorozhdeniy (Underground Exploitation of Ore Deposits) Sverdlovsk [1960] 165 p. (Series: Its: Trudy, vyp. 54) 1,000 copies printed.
- Editorial Board: K. V. Kochnev, Professor, Doctor of Technical Sciences; L. Ye. Zubrilov, Candidate of Technical Sciences; A. A. Ilivitskiy, Candidate of Technical Sciences. Ed. of Publishing House: M. S. Ebergardt; Tech. Ed.: N. F. Seredkina.
- PURPOSE: This publication is intended for engineering and technical personnel in the mining industry.
- COVERAGE: This is a collection of 22 articles by different authors on problems of underground exploitation of large massive ore deposits in the Urals. The articles are based on studies carried out in the Laboratory for the Exploitation of Ore Deposits of the Gorno-geologicheskiy institut UFAN SSSR (Institute of Mining Card 1/6

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Underground Exploitation (Cont.)

SOV/5298

Geology, Ural Branch AS USSR), between 1958-1959. No personalities are mentioned. Most of the articles are accompanied by references.

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Zubrilov, L. Ye. Outlining the Boundaries of Poor Complex Ore Deposits 13

# ROCK MECHANICS AND ROCK PRESSURE

Ilivitskiy, A. A., and V. I. Nikolin. Determining Temporary Compression Resistance in Irregularly Shaped Samples

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Nikolin, V. I. Evaluating the Different Methods of Formi Funnels in the Floors of (Chamber) Blocks	ng 131
Vaganov, P. V., A. N. Ikonnikov, V. P. Kompaneyets, Yu. A Kabakov, and P. M. Chepchugov. Use of Underground Excava Steeply Dipping Ore Deposits	tors at
Shahelkanov, V. A. Utilizing the Force of Explosion and Ore's Own Weight for Transporting Crushed Ore in Exploiti Inclined Deposits	the ng 149
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ZUBRILOV, L.Ye.; ILIVITSKIY, A.A.; UTKIN, L.A.; SHUL'MIN, B.M.

Main directions in improving the technology of underground mining of thick ore deposits in the Urals. Trudy Gor.-geol.inst.UFAN SSSR no.54:5-12 \*60. (Ural Mountains-Mines and mineral resources)

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S/169/61/000/012/010/039 D228/D305

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AUTHOR:

Utkin, L. A.

TITLE:

The study of the seismic effect of powerful

explosions

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1961, 18, abstract 12A183 (Tr. Gorno-geol. in-tally laking fil. AN SSSR, 1960, no. 54, 125-130)

TEXT: The seismic effect of powerful explosions produced during the underground exploitation of deposits was studied. Determination of the seismic hazard of powerful explosions is decided on the basis of the measurement of stresses from the massifis rate of vibration and the measurement of the pressure in the objects under consideration. The following methods may be used for this; visual observations, the acoustic (ultrasonic) be used for this; visual observations, the acoustic method, and method, the tensometric method, the piezoelectric method and the microanalytical investigation of the vibrations of structures

Card 1/3

是是无效效性的结果的,然如此或可能的知识,我们就可能是是否的方式,对,但可是,在这些证明,但这种主义。这一次,但是可能是是,但是是是是是一种的企业,也不是一个。

3/169/61/000/012/010/069 p228/p305

The study of the ...

(MIVS), Visual observations are based on the installation of special slabs of friable material in the zone affected by the explosion. After the explosions, these slabs are studied for explosion of cracks and the measurement of their emount the disposition of cracks and the measurement of their emount in relation to the magnitude of the charge and the distance from the explosion point, etc. The acoustic method may be explored the explosion point, etc. The acoustic method may be explored for studying the fracturing of a rock massif by measuring the propagational speed of ultrasound. The tensometric, prescribed electric, and MIVS methods are generally similar the different electric, and MIVS methods are generally similar the different electric, and mivs method are generally similar the different electric. The ments (tensometers, prescelements, seismographs). The MIV ments (tensometers, prescelements, seismographs). The MIV ments (tensometers, prescelements, seismographs). The MIV method, in which the recording of oscillations is made by method ously by 6 - 12 receivers situated at different places of verified the most practical. The recording is made by method oscillagraphs of the MOS-12 (POB-12) or GOS. 4 POB 1 oscillagraphs of the MOS-12 (POB-12) or GOS. 4 POB 1 oscillagraphs of the MOS-12 (POB-12) or GOS. 4 POB 1 oscillagraphs of the MOS-12 (POB-12) or GOS. 4 POB 1 oscillagraphs are calculated; the maximum amplitude of the ground details.

 $\operatorname{Card} 2/3$ 

The study of the S/169/61/000/012/010/039

maximum relative deformation, the maximum stress, and the radius of the seismically hazardous zone. Abstracter's note: Complete translation.

UTKIN L G

PANYSHEVA, Lidiya Vasil'yevna, kand.veterin.nauk; LIPIN, V.A., kand.veterin.nauk; TARASOV, Vasiliy Romanovich, kand.veterin.nauk; LIPINA, Yelena Ivanovna, kand.veterin.nauk; UTKIN, Leonid Georgiyevich, kand.biol.nauk; DOMRACHEV, G.V., prof., doktor veterin.nauk, saslushenmyy deyatel' nauki [deceased], red.; DIKAREV, P.I., red.; GOR'KOVA, Z.D., tekhn.red.

Diseases of dogs (noninfectious); a practical manual for veterinarians and veterinary technicians] Bolezni sobak (nezaraznye); prakticheskoe rukovodstvo dlia veterinarnykh vrachei i veterinarnykh tekhnikov. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958.

445 p. (MIRA 12:4)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Domrachev).

(Dogs--Diseases)

"这种问题"在创意,"我就是"我是是这一"会想,是是否不完全,却是这一个,这个是是是我们的"他们也不是这种的,我也是不是我的,我们也不是一个一个,不是

UTKIN, L. G. (Co-author)

See: HELYAYEV, D. K.

Belyayev, D. K. and Utkin, L. G. "The effect of reduced length of daylight on the period of time needed for ripening of fox fur," Karakulevodstvo i zverovodstvo, 1949, No. 2, p. 59-62.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

UTXIII, I.G.

"Mermiological and Physicoche deal Properties of the Cloud of Furthering Andrals." Cand Etol Set, Monow Vibrancy Acad, Min Migher Education USA, Monow, 1995. (L., No L., Act. )

30: Sum.No. 764, 2 Nov 55 - Survey of Scientific and Tadinted Dissertable in Defended at USB Higher Educational Latitutions (C6).

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UTKIN, L. G.: "Morphological and physicochemical properties of the blood of furbearing animals." Inst of Animal Morphology imeni A. N. Severtsov, Acad Sci US3R. Moscow, 1956. (Dissertation for the Degree of Candidate in Biological Scineces)

Knizhnaya letopis', No 39, 1956, Moscow.

507/ 20-120-2-62/63

AUTHORS:

Bayevshiy, Yu. B., Belyayev, D. K., Utkir, L. G.

TITLE:

Observations on Intraovarian Eggs of the Sable (Mablyudeniya

nad yaichnikovymi yaytsami sobolya)

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PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 2,

pp. 439 - 440 (USSR)

ABSTRACT:

In publications there are descriptions of mature eggs of several species of mammals (References 3-8). There is only an imperfect description of the egg of the sable (Reference 10). A female sable in heat was operated on August 2, 1956, and had 3 intact follicles in its right ovary. 2 Graaf vescicles contained rather grown eggs (figure 1 b and c) in a stage near to deliverance. The sizes of the follicles and of the eggs are given. In 300 times magnification the egg protoplasma looked coarse-grained and rather frothy. It filled the whole space of the zona pellucidaso that no peri-vitellin space is visible in this stage. The nuclei of separate eggs and the

Card 1 2

differences between them are described. The zona pellucida is

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Observations on Intraovarian Eggs of the Sable

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surrounded by a radiant crown (corona radiata). Further microscopical details are described. According to the state of the eggs no. 2 and no. 3 it could be supposed that they are in the preparatory stage for the first maturity division. As is well known in some <u>Carnivora</u> (dog, reference 12 -14; fox, reference 15) the first polar body is eliminated after ovulation. In a species related to the sable, the polacat (Reference 11), the egg is released during the metaphase of the second maturity division. With the sable the case seems to be similar. There are 15 references, 1 of which is Soviet.

ASSOCIATION:

Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR (Institute of Animal Morphology imeni A. N. Severtsov AS USSR)/Vsesoyuznaya nauchno-issledovatel'skaya laboratoriya pushnogo zverovodstva (All-Union Scientific Research Laboratory for the Breeding of Fur-Bearing Animals)

PRESENTED:

August 24, 1957, by I. I. Shmal'gauzen, Member, Academy of

Sciences, USSR

SUBMITTED:

August 13, 1957

Card 2/2

1. Sables-Reproduction 2. Uterus-Fhysiology 3. Eggs

---Production

BELYAYEV, D.K., kand.biologicheskikh nauk; UTKIN, L.G., kand.biologicheskikh nauk

Some data on breeding sables in captivity. Nauch. trudy
Nauch.-issl. inst. push. zver. i krol. 5:40-70 '60. (MIRA 15:3)

(Sables)

BELYAYEV, D.K.; UTKIN, L.G.

Problems of obtaining higher fecundity of sables in captivity.
Nauch. trudy Nauch.-issl. inst. push. zver. i krol. 5:95-115
'60. (Sables)

DELYAYEV, D.K.; HTETH, L.G.; EMLICHNOV, B.A.

Effect of the light factor in the development of the cover in mink (Mustela vison Shr.). Izv. SO AM SSSR no.4 Ser. biol.-med. (MIRA 17:11) nauk no.1:91-100 '64.

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AM SSSR, Novosibirsk.

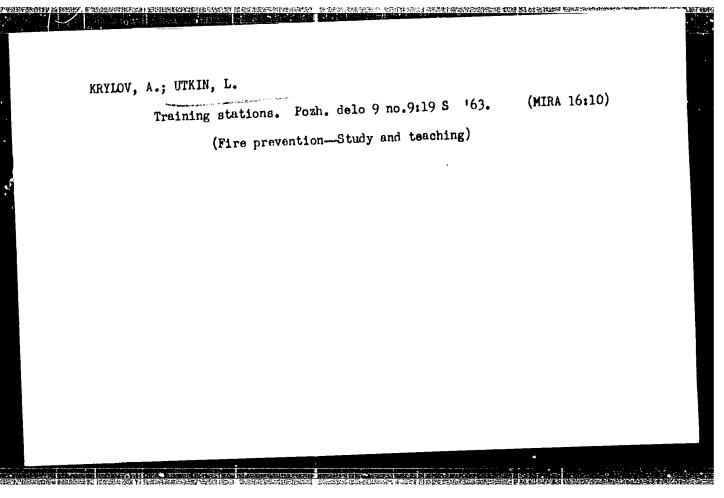
VAGIN, Ye.A., kand. sel'khoz. nau'; KVAPIL', A.I., kand. sel'khoz. nauk[deceased]; KLETSKIN, P.T., kand. sel'khoz.
nauk; UTKIN, L.G., kand. biol. nauk. Prinimal uchastiye KLADOVSHCHIKOV, V.F., kand. sel'khoz. nauk;
ZAVARSKIY, A.I., red.

[Fur farming and rabbit husbandry] Pushnoe zverovodstvo i krolikovodstvo. Moskva, Kolos, 1965. 286 p. (MIRA 18:7)

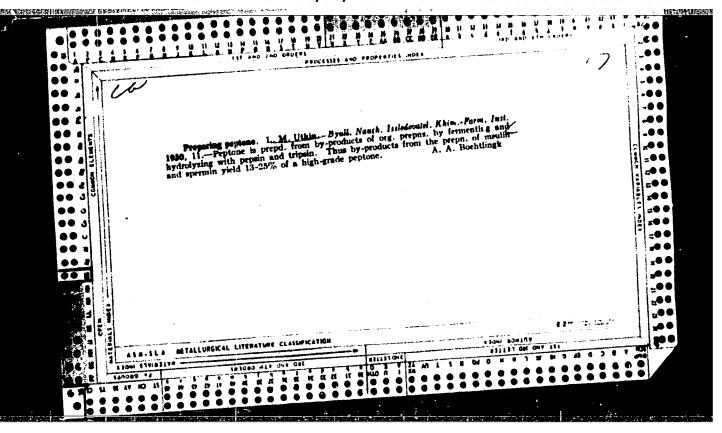
l. Nauchno-issledovatel skiy institut pushnogo zvero-vodstva i krolikovodstva (for all except Zavarskiy).

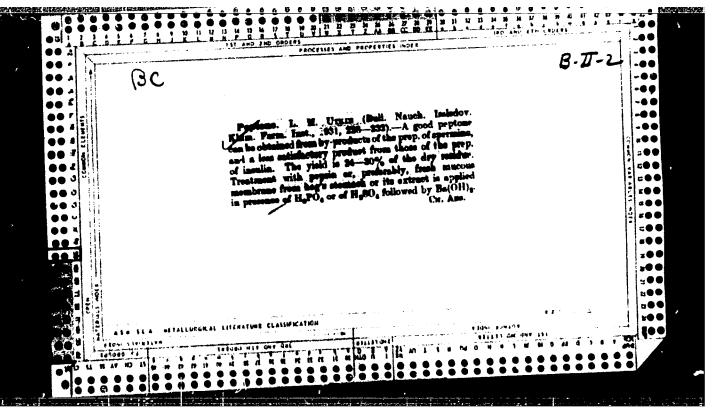
"Narodnye lekarstvennye rasteniya Sibiri: materialy k izucheniyu narodnoi meditsiny, Gosud. Nauchno Teknich. Izd. Moscow-Leningrad, 1931, 104 pp.

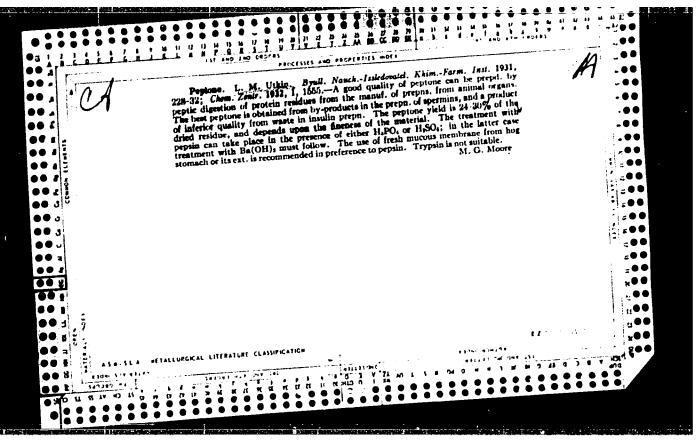
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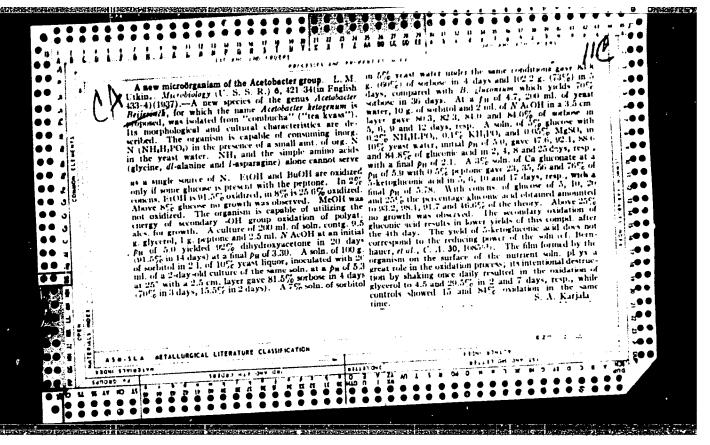


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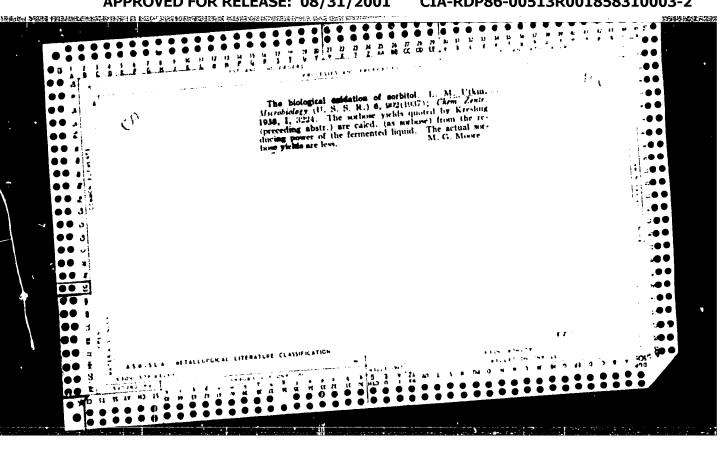


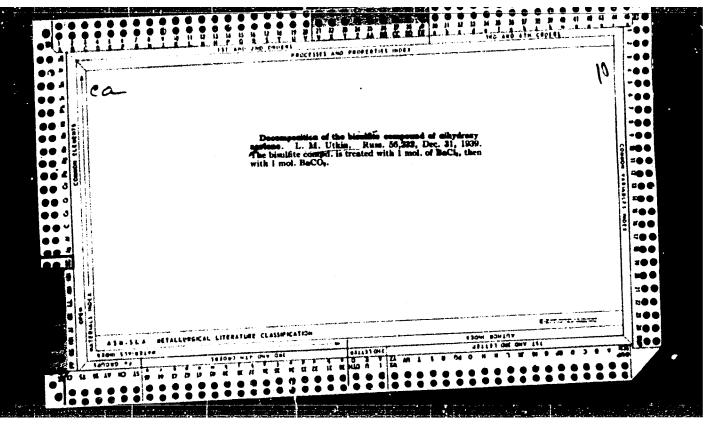




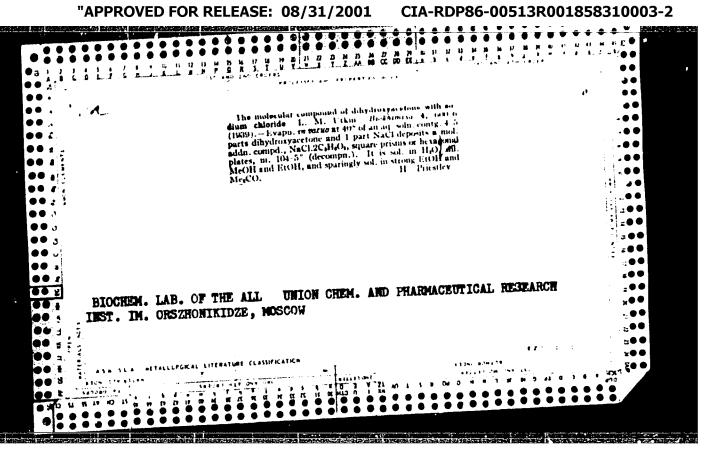


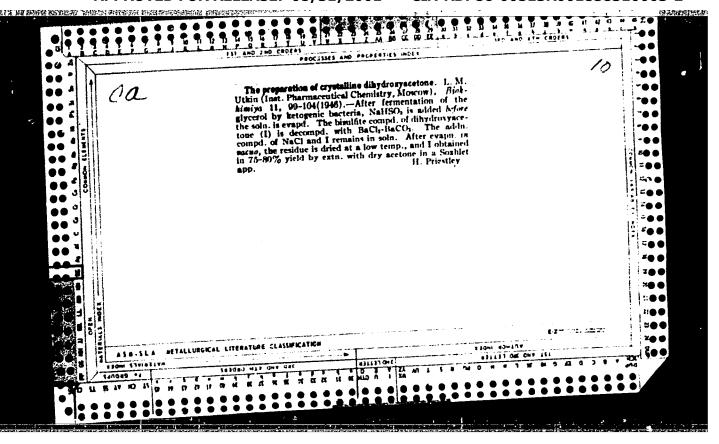
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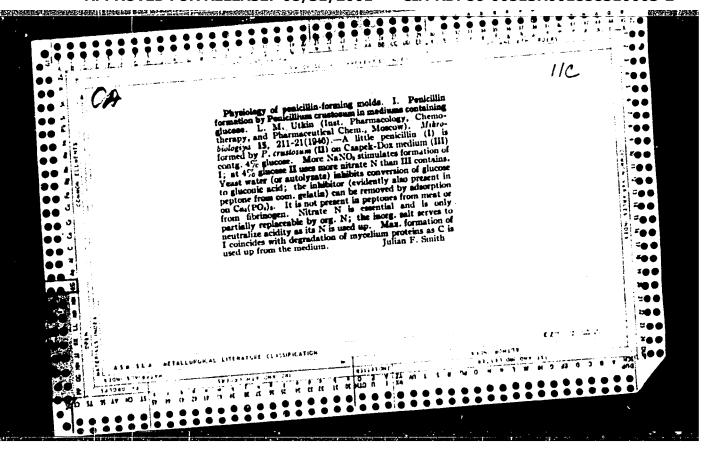




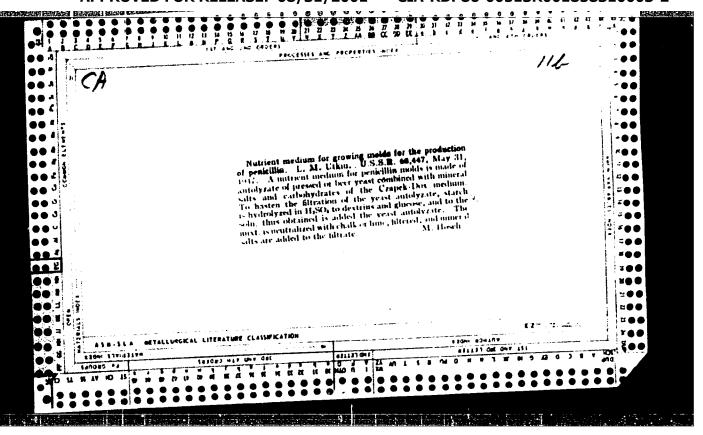
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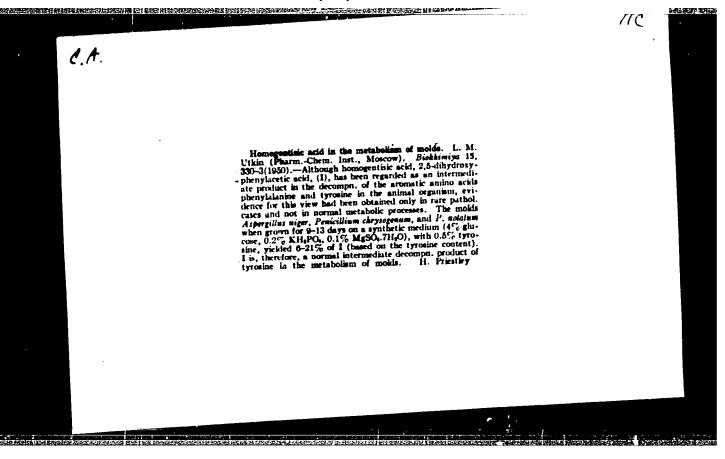
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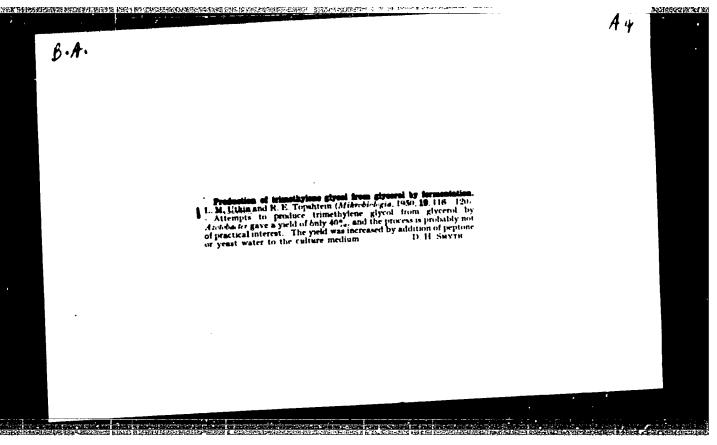
New branched chain carbohydrate. L. M. Utkin. Doblady Ahad. Nauk S.S.S.R. 67, 301 4(1949).

COCCHOID) (5% soin, in 0.05 N NaOH) let stars 4 died, and acctonated in the presence of HSO, gave 45% died, and acctonated in the presence of HSO, gave 45% died, and acctonated in the presence of HSO, gave 45% died, and acctonated in the presence of HSO, gave 45% died a solid fraction, in 84% giving a violet color gave 10% of a solid fraction, in 84% giving a violet color with Schwanov reagent and reducing behing solin, only died acids bydrolysis; the product violes a phenylandome, in 15% after bydrolysis with 0.1 ThC 116% of the product violes a phenylandome, which violes to followed by bearrolation in pyroline, which violes the solidowed by bearrolation in pyroline, which violes the followed by bearrolation in pyroline, which violes the solidowed by bearrolation in pyroline, which violes the solidowed by bearrolation in pyroline, which violes the following with NAOME 100% of the above diacetonehexose, giving with NAOME 100% of the above diacetonehexose, label to 15% a label of the production of the following with value and the phenylandome derived from this, in, 10% of 10% 43.7% the bearryldiacetone following with water 1.5 hrs. at 100% following violes to violation by the structure 1. The tree hexagons and was obtained the structure 1. The tree hexagons and was obtained the structure 1.

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only as a sump from the optically active derive, but the distorm, obtained in 50°, yield, in 121. Hydrolysis of the bornoyldiacetonyl derive by hot 60°, Actill gives the bornoyldiacetonyl derive by hot 60°, Actill gives solit, i.e. the MesC group on the reducing group is lost used; because the first, the prishect forms prisms, in 121.2, for W. 13.7 (in MesCO) (di-form, in 10°, 80°, oxidation by 140°, gave CH4O and benevilaceton options and lactone, gave CH4O and benevilaceton options and lactone, meddes, in 140°, for W. 33.1 (MesCO) addomined at the most of the first with a Koll-cover the absumpt of the interact with 1411 gave (a apposite, gelations of the interact with 1411 gave (a apposite, gelations option which was obtained of our and popularly from the first water for the first constant of the





UTKIN, L. H.

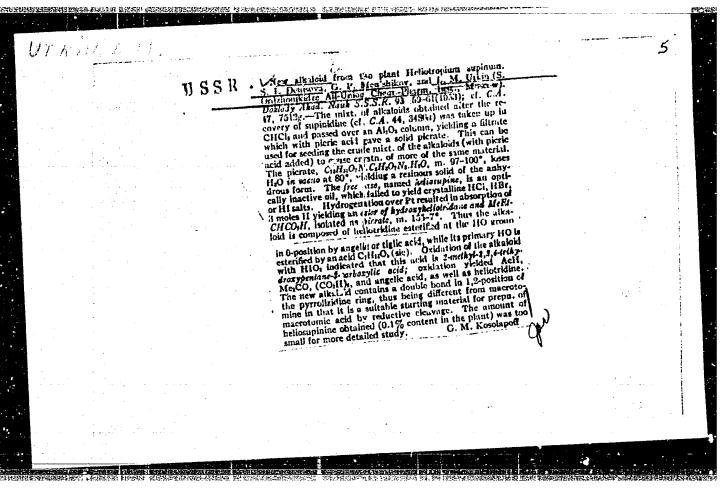
"Investigation of a New Hexasa Having a Branched Carbon Chair and Its Acetone Derivatives." Sub 18 Apr 52, All-Union Sci Res Chemica-pharmaceutical Inst iment Sergo Ordzhonikidze, Ministry of Health USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

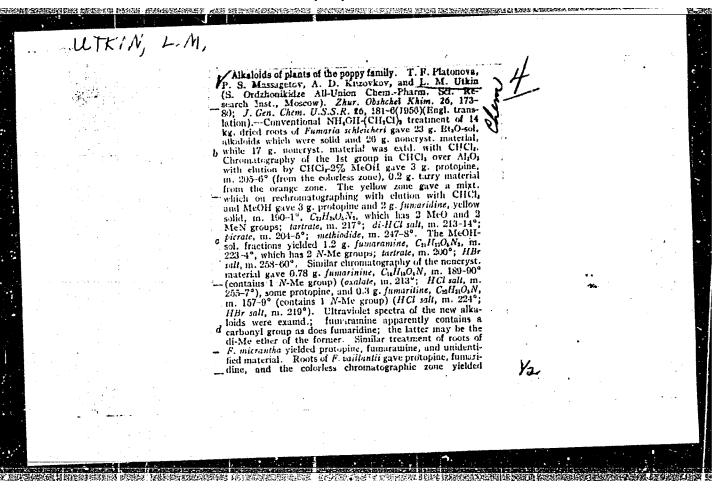
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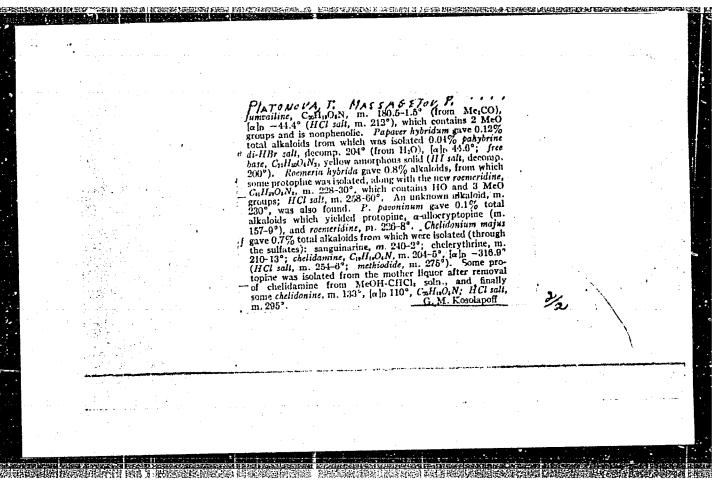
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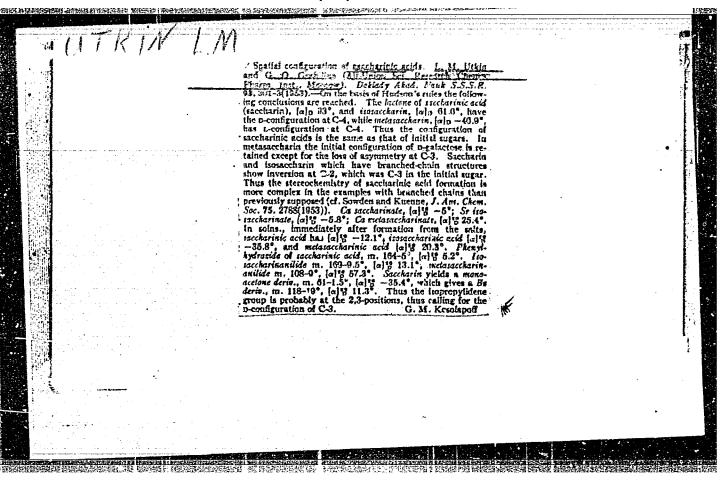


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PERSHIN, G.N., laureat Stalinskoy premii, professor, redaktor;
SHGHUKINA, M.N., professor, redaktor; NATRAINE, A.G., otvetstvennyy
sekretary; SERGIYEVSKAYA, S.I., professor, chlen redaktsionnoy
kollegii; MAGINSON, O.Yu., professor, laureat Stalinskoy premii,
chlen redaktsionnoy kollegii; UMKIN, L.M., professor, chlen redaktsionnoy kollegii; MASHKOVSKIY, M.D., professor, chlen redaktsionnoy kollegii; KARAKHANYAN,O.I., redaktor; GLUKHOYEDOVA, G.A., tekhnicheskiy
redaktor.

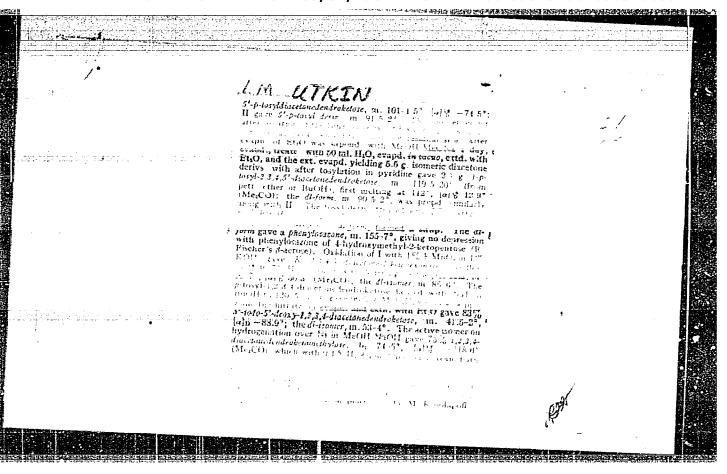
[Synthomycin] Sintomitsin, Otvet. red. G.N.Pershin, Moskva, Gos.
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institut.

(Chloromycetin)

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DANILOVA, A.; UTKIN, L.; MASSAGNTOV, P.

Study of alkaloids from the grounsel (Senecio macrophyllus). Zhur.ob.khim.
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THE PROPERTY OF THE PROPERTY O 79-2-58/58 Koretskaya, N. I.; Danilova, A. V.; Utkin, L. M. AUTHORS: Synthesis of Harmine Derivatives. Part 1. (Sintez proizvodnykh garmina. TITLE: I.) Zhurnal Obshchey Khimii, 1957, vol 27, No 2, pp. 542-545 (U.S.S.R.) PERIODICAL: This report describes the synthesis of certain harmine derivatives for pharmacological investigation. The new harmine derivatives were identi-ABSTRACT: fied as Ind-N-(beta-diethylamino)-ethylharmine, dichlorohydrate; chlor-(beta-diethylamino)-harmine ethylate, hydrochloride; Ind-N-benzylharmine; Py-N-iodomethylate Ind-N-benzylharmine: Py-N-chloromethylate of Ind-N-benzylharmine, ethyl ether of norharmine carboxylic acid. The authors obtained new derivatives of tetrahydroharmine, namely, Py-N-(betadiethylamino)-ethyltetrahydroharmine; tetrahydronorharmine carboxylic acid. There are 5 references, none of which are Slavic. Card 1/2

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Synthesis of Harmine Derivatives. Part 1.

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All-Union Scientific Research Chemical Pharmaceutical Institute imeni

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SUBMITTED:

March 18, 1956

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